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APPLICANT : KANEGAFUCHI CHEM IND CO LTD;

INVENTOR : FUTAMURA SEIJI;

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TITLE : LIGHTWEIGHT CONCRETE

ABSTRACT : PURPOSE: To provide a nailable lightweight concrete, having high strength in spite of a lighter weight than that of lightweight concrete using a conventional artificial lightweight aggregate, having low water absorptivity, excellent in heat insulating properties, durability, impact resistance and crack preventing properties.

CONSTITUTION: The objective lightweight concrete is composed of a cement, water, synthetic resin expanded beads having 0.1-1.5mm average grain diameter and fiber having 1-30mm length. The water-cement ratio is $\leq 45\%$ and the mixing ratio of the synthetic resin expanded beads is 10-55vol.%.

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